



## UNISTAR 100 SINGLEUSER SYSTEM



The UNISTAR™ 100 singleuser workstation is the first of a new family of powerful, 68000-based microcomputers that are designed and built to provide speed and versatility for the scientific, industrial and commercial markets. As a compact desktop system, the UNISTAR 100 combines cost effectiveness with high reliability to achieve the ultimate in individualized computing power for professional applications.

The UNISTAR 100 is a turnkey system that includes an intelligent video terminal, integrated disk storage, a microprocessor CPU and the UNIX\* operating system.

## FEATURE SUMMARY

## SYSTEM SOFTWARE

- Bell Laboratories, UNIX V7 (licensed under UNIX System III) with University of California/Berkeley enhancements (C-Shell, diffdir, head, last and more)
- 68000 Assembler
- C Language\*
- Text processing functions: document formatter, spelling program and full screen editor

## PROCESSOR

- 16/32-bit 68000 microprocessor CPU (8 MHz)
- No wait states for local RAM access
- 256K bytes dynamic local RAM (expandable to 1.28M bytes)
- Eight vectored interrupt levels
- Two-level (segment/page) memory management unit
- IEEE 796 compatible Multibus\* architecture

## DISK STORAGE

- 600K byte (formatted) 5¼-inch minifloppy; double-sided, double-density
- DMA-based minifloppy controller with high quality analog data separator
- 10M byte (formatted) 5¼-inch Winchester disk
- DMA-based Winchester controller providing burst error correction

## PERIPHERALS

- 83-key detachable keyboard (including numeric keypad) with 18 programmable function keys
- 12-inch P31 green phosphor monitor with a 25 × 80 character/line display
- VT100/VT52\* compatible video controller with split screen feature and six alternate video attributes
- Six slot Multibus card cage (IEEE 796 compatible)
- Two extra slots available
- Supports two RS423 interface ports
- Supports ten RS423 interface ports

## ADDITIONAL FEATURES

- Complete set of hardware and software documentation included
- Complete spare parts package and maintenance manual available
- 9-Month Factory Warranty

## OPTIONS

- 512K byte memory expansion board
- Fortran 77, Pascal, COBOL, and BASIC
- ETHERNET\* interface controller (availability to be announced)
- TEKTRONIX 4010-compatible graphics controller board (availability to be announced)
- Integrated Bell 212A/103J-compatible modem board with dial-up direct UNIX to UNIX communications (availability to be announced)
- Software maintenance agreement including UNIX upgrades, diagnostics, a toll-free number for question/answer support, dial-in news service for upgrades, bug reports, application notes, utility updates and device driver releases
- Reconfiguration rights (allows I/O driver additions)

## SPECIFICATIONS

## POWER

- AC Input:
  - 105-125 VAC @ 60Hz 4 amps RMS load
  - 210-250 VAC @ 50Hz 2 amps RMS load
- Input Power:
  - 500 VA apparent; 300 Watts maximum
- DC Output:
  - +5V @ 25 AMPS
  - +12V Linear @ 4 AMPS
  - +12V Motors @ 4 AMPS
  - 12V @ 3 AMPS
  - 5V @ .5 AMPS
  - Maximum power load is 225 watts
- DC Power Reserve: (for spare slots)
  - +5V @ 13 AMPS
  - +12V @ 1.3 AMPS
  - 12V @ 1.8 AMPS
  - 5V @ .5 AMPS

## ENVIRONMENTAL

## OPERATING ENVIRONMENT

- Temperature (rear access cover installed):
  - 10-32.2° C (50-90° F)
- Temperature (rear access cover removed):
  - 10-26.71° C (50-80° F)
- Altitude:
  - 8000 ft. (2.4 km)
- Humidity:
  - 10-90% non-condensing
- Maximum Wet Bulb:
  - 28° C (82° F)
- Minimum Dew Point:
  - 2° C (36° F)

## NON-OPERATING ENVIRONMENT

- Temperature:
  - 10-50° C (50-122° F)
- Shock:
  - Five G's maximum in shipping package

## PHYSICAL DATA

- Height: 14½-inches (37 cm)
- Width: 20½-inches (52 cm)
- Depth (with keyboard): 25½-inches (64 cm)
- Depth (without keyboard): 19¼-inches (49 cm)
- Weight: 75 pounds

## TIMING

- Bus Architecture: Six slot IEEE 796 Multibus
- Processor Clock: Eight MHz
- Serial I/O Rate: 50-19,200 Baud

## ANOTHER PRODUCT OF CALLAN ENGINEERING AND MANUFACTURING EXCELLENCE

Subscribing to a business philosophy of engineering and manufacturing excellence, with continuing emphasis on research and development and product marketing, Callan Data Systems is gaining recognition as a proven leader and innovator in the computer industry.

Callan Data Systems products include integrated workstations for use with a variety of 16-bit microcomputers and an integrated line of versatile desktop computers for Distributors, OEM/Systems Integrators and volume end-users in advanced business, scientific, industrial, medical, communications, government and military applications. Callan products are sold throughout the United States, Europe and Australia.

# Callan

## DATA SYSTEMS

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